

- 18 -

CLAIMS:

1. An imaging process, including generating image display data representing a three-dimensional object at the origin of a spatial coordinate system, the dimensions of said object being determined on the basis of financial data for a financial product.
5
2. An imaging process as claimed in claim 1, wherein said object is represented isometrically by said display data.
- 10 3. An imaging process as claimed in claim 1, wherein said object is a cuboid or rectangular parallelepiped.
4. An imaging process as claimed in claim 1, wherein the dimensions of said object correspond to respective parameters of said financial data.
15
5. An imaging process as claimed in claim 4, wherein said parameters are selected by a user.
6. An imaging process as claimed in claim 4, including generating control data for generating user interface components to allow a user to select one or more of said financial product and said parameters of financial data for said product.
20
7. An imaging process as claimed in claim 4, including generating at least one of said parameters from said financial data.
25
8. An imaging process as claimed in claim 1, wherein the colour of said object is determined on the basis of financial data for said product.
9. An imaging process as claimed in claim 8, wherein the colour of said object is determined on the basis of a parameter of said financial data.
30

- 19 -

10. An imaging process as claimed in claim 9, wherein said parameter includes a measure of risk for said financial product.
- 5 11. An imaging process as claimed in claim 4, wherein said parameters of said financial data for said financial product are normalised with respect to respective parameters of financial data for a plurality of financial products.
- 10 12. An imaging process as claimed in claim 11, wherein said parameters of said financial data for said financial product are normalised with respect to respective parameters of financial data for the overall market for said financial product.
13. An imaging process as claimed in claim 4, wherein the parameters of said financial data for said financial product are quantized.
- 15 14. An imaging process as claimed in claim 1, wherein the dimensions of said object are quantized.
- 20 15. An imaging process as claimed in claim 1, including generating display data for displaying a financial data value for said financial product in response to movement of a pointing device over a corresponding portion of an image generated from said image display data.
- 25 16. An imaging process as claimed in claim 1, including regenerating said image display data to reflect changes in said financial data.
17. An imaging process as claimed in claim 1, wherein said image display data includes image animation data for generating an animated representation of said object representing changes of said financial data over time.
- 30 18. An imaging process as claimed in claim 1, wherein said financial product includes a stock.

- 20 -

19. An imaging process as claimed in claim 18, wherein the dimensions of said object correspond to one or more of price, income, growth, return on assets, debt to equity ratio, and volume of trading of said stock.
- 5 20. An imaging process as claimed in claim 18, wherein the dimensions of said object correspond to respective measures of price, income, and growth of said stock.
21. An imaging process as claimed in claim 20, wherein said measures include price to earnings ratio, dividend yield, and growth in earnings per share.
- 10 22. An imaging process as claimed in claim 21, wherein said measures are normalised with respect to respective measures for a plurality of stocks.
- 15 23. An imaging process as claimed in claim 18, wherein the colour of said object is determined on the basis of a risk measure for said stock.
24. An imaging process as claimed in claim 20, wherein said risk measure includes a beta value for said stock.
- 20 25. An imaging process as claimed in claim 1, wherein said financial product represents an aggregate of funds.
26. An imaging process as claimed in claim 1, wherein said financial product represents an aggregate of stocks.
- 25 27. An imaging process as claimed in claim 1, wherein said financial product represents an aggregate of funds and stocks.
- 30 28. An imaging process as claimed in claim 1, wherein said financial product includes a managed fund or a mutual fund.

- 21 -

29. An imaging process as claimed in claim 28, wherein said dimensions correspond to respective measures for said fund.
- 5 30. An imaging process as claimed in claim 29, wherein said measures include one or more of financial return, rolling return, entry fee, management expense ratio, and independent rating.
- 10 31. An imaging process as claimed in claim 28, wherein said dimensions correspond to measures of financial return over respective periods of time for said fund.
32. An imaging process as claimed in claim 31, wherein said periods are selected by a user.
- 15 33. An imaging process as claimed in claim 31, wherein said periods correspond to 1, 3, and 5 year periods.
34. An imaging process as claimed in claim 28, wherein the colour of said object is determined on the basis of a risk measure for said fund.
- 20 35. An imaging process as claimed in claim 34, wherein said risk measure represents the volatility of said fund.
36. An imaging process as claimed in claim 30, wherein said measures are normalised with respect to a plurality of funds.
- 25 37. An imaging process as claimed in claim 1, including generating display data representing two or more objects for respective financial products to enable comparison of said financial products, wherein the colour of each object is determined on the basis of financial data for the corresponding financial product.
- 30

- 22 -

38. An imaging process as claimed in claim 1, including generating display data representing two or more objects for respective financial products to enable comparison of said financial products, wherein the dimensions of each object are determined on the basis of financial data for the corresponding financial product.
- 5
39. An imaging process as claimed in claim 38, wherein the colour of each object is determined on the basis of financial data for the corresponding financial product.
40. An imaging process as claimed in claim 38, wherein said image display data represents said two or more objects at the origin of a spatial coordinate system.
- 10
41. An imaging process as claimed in claim 38, wherein said image display data represents said two or more objects at the origins of respective spatial coordinate systems.
- 15
42. An imaging process as claimed in claim 38, wherein said financial products include stocks.
43. An imaging process as claimed in claim 38, wherein said financial products include managed funds or mutual funds.
- 20
44. An imaging process as claimed in claim 1, including receiving transaction data in respect of a financial product from a user, and initiating a financial transaction on the basis of said transaction data.
- 25
45. An imaging process as claimed in claim 44, wherein said initiating includes initiating a financial transaction with a remote transaction system.
46. An imaging process as claimed in claim 1, including selecting at least one financial product on the basis of a comparison of financial data for said at least one financial product with predetermined financial data.
- 30

- 23 -

47. An imaging process as claimed in claim 46, wherein said predetermined financial data is specified by a user.
- 5 48. An imaging process as claimed in claim 46, including selecting at least one financial product corresponding to a selected financial product category.
49. An imaging process as claimed in claim 1, including selecting at least one financial product on the basis of a comparison of financial data for said at least one financial product with corresponding financial data for another selected financial product.
- 10
50. An imaging process as claimed in claim 49, wherein each said at least one financial product is selected if the dimensions of an object represented by image display data for said at least one financial product are similar to those of the selected financial product.
- 15
51. An imaging process as claimed in claim 1, wherein each said at least one financial product is selected if the colour of an object represented by image display data for said at least one financial product is similar to that of the selected financial product.
- 20
52. An imaging process as claimed in claim 49, wherein said selecting includes selecting at least one financial product if the financial data for said at least one financial product is similar to corresponding displayed financial data for another selected financial product.
- 25
53. An imaging process as claimed in claim 52, wherein financial data for two or more financial products is similar if differences between the respective financial data are within a predetermined value.
- 30 54. An imaging process as claimed in claim 1, including generating a display of said image display data.

- 24 -

55. An imaging process, including generating image display data representing a three-dimensional object, the dimensions and colour of said object being determined on the basis of financial data for a financial product.
- 5
56. An imaging process, including generating image display data representing a three-dimensional object, the dimensions of said object being determined on the basis of respective measures of price, income, and growth of a stock.
- 10 57. An imaging process as claimed in claim 56, wherein the colour of said object is determined on the basis of a risk measure for said stock.
58. An imaging process as claimed in claim 57, wherein said risk measure includes a beta value for said stock.
- 15
59. An imaging process, including generating image display data representing a three-dimensional object, the dimensions of said object being determined on the basis of performance data for a fund over respective time periods.
- 20 60. An imaging process as claimed in claim 59, wherein said periods are periods of one, three, and five years.
61. An imaging process as claimed in claim 59, wherein the colour of said object is determined on the basis of a risk measure for said fund.
- 25
62. An imaging process as claimed in claim 61, wherein said risk measure includes a measure of volatility of said fund.

- 25 -

63. An imaging process, including generating image display data representing a three-dimensional object at the origin of a spatial coordinate system, the dimensions and colour of said object being determined on the basis of financial data for a financial product.
- 5
64. An imaging process as claimed in claim 63, wherein said financial data is normalised with respect to other financial products.
65. An imaging process as claimed in claim 64, wherein the colour of said object is determined on the basis of a measure of risk for said financial product.
- 10
66. An imaging process as claimed in claim 65, wherein said financial product includes a stock, the dimensions of said object corresponding to price to earnings ratio, dividend yield, and growth in earnings per share for said stock.
- 15
67. An imaging process as claimed in claim 65, wherein said financial product includes a managed fund or a mutual fund, the dimensions of said object corresponding to measures of financial return over respective periods of time for said fund.
- 20
68. An image data process, executed by a computing device, including generating image data for displaying a three-dimensional object at the origin of a spatial coordinate system, the dimensions of said object corresponding to financial data for a financial product.
- 25
69. An image data process as claimed in claim 68, including sending said image data to a display device for display to a user.
70. An image data process as claimed in claim 68, including generating a display of said object on the basis of said image data.
- 30
71. A system having components for executing the steps of any one of claims 1 to 70.

- 26 -

72. A computer readable storage medium having stored thereon program code for executing the steps of any one of claims 1 to 70.
- 5 73. Image display data generated by executing the steps of any one of claims 1 to 70.
74. A graphical user interface including image display data generated by executing the steps of any one of claims 1 to 70.
- 10 75. An imaging system, including a visualisation module for generating image display data representing at least one three-dimensional object at the origin of a spatial coordinate system, the dimensions of each object being determined on the basis of financial data for a corresponding financial product.
- 15 76. An imaging system as claimed in claim 75, wherein the system is adapted to receive said financial data from a remote system to enable said visualisation module to update said image display data.
- 20 77. An imaging system as claimed in claim 76, including a server for receiving a request for said image display data and for sending said image display data in response to said request.
- 25 78. An imaging system as claimed in claim 76, including a transaction module for initiating a financial transaction on the basis of received transaction data in respect of a financial product.
79. An imaging system as claimed in claim 75, wherein the financial data for each financial product is normalised with respect to other financial products.
- 30 80. An imaging system as claimed in claim 75, wherein the colour of each object is determined on the basis of financial data for the corresponding financial product.

- 27 -

81. An imaging system as claimed in claim 80, wherein the colour of each object is determined on the basis of a measure of risk for the corresponding financial product.
- 5 82. An imaging system as claimed in claim 75, wherein each financial product includes a stock, and the dimensions of each object correspond to price to earnings ratio, dividend yield, and growth in earnings per share for the corresponding stock.
- 10 83. An imaging system as claimed in claim 75, wherein each financial product includes a managed fund or a mutual fund, and the dimensions of each object correspond to measures of financial return over respective periods of time for the corresponding fund.
- 15 84. A graphical user interface, including a display of a three-dimensional object at the origin of a spatial coordinate system, the dimensions of said object being determined on the basis of financial data for a financial product.
- 20 85. A graphical user interface as claimed in claim 84, the colour of said object being determined on the basis of financial data for said financial product.
86. A graphical user interface as claimed in claim 85, the colour of said object being determined on the basis of a risk measure for said financial product.
- 25 87. A graphical user interface as claimed in claim 84, wherein said financial product includes a stock, the dimensions of each object corresponding to price to earnings ratio, dividend yield, and growth in earnings per share for said stock.
- 30 88. A graphical user interface as claimed in claim 84, wherein said financial product includes a managed fund or a mutual fund, the dimensions of each object

- 28 -

corresponding to measures of financial return over respective periods of time for said fund.

- 5 89. A computer program, stored on computer readable media, for generating image display data representing a three-dimensional object at the origin of a spatial coordinate system, the dimensions of said object being determined on the basis of financial data for a financial product.
- 10 90. Image display data, including image coordinate data representing a three-dimensional object at the origin of a spatial coordinate system, the dimensions of said object corresponding to financial data for a financial product.
- 15 91. Image display data as claimed in claim 90, including colour data representing colour of said object, said colour being determined on the basis of financial data for said financial product.